

RESUME

Pulla Reddy. B, MSc., PhD.

CSIR-CFTRI, Department of Molecular Nutrition, Mysuru-20, India
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- Having, 12+ Years experience in Teaching & Research in Human Genetics, Molecular biology, Cell biology, Biochemistry & Immunology.
- Currently working as a **Senior Technical Officer (2)**, Department of Molecular Nutrition, CSIR-CFTRI, Mysuru-20 from 5th June, 2017 to till the date

CAREER ACCOMPLISHMENTS

INDUSTRY

- **Biotech and Vaccine Industry** experience gained in the fields- like R &D, QC support for development and update of QC testing, Preparation of novel cost effective adjuvants, Stability studies of Vaccines, Vaccine finished QC testing, serum free media mammalian cell culture, Virus culture, Virus purification, Protein purification Bacterial Culture, RFFIT for Rabies, TCID50, ELISA development, assay development, Detection and Characterization of Mycoplasma, BHK cells, Rabies Virus by PCR and RT-PCR. Preparation of method validation protocols, Technology transfer from R &D to QC, document maintenance as per ISO9001:2008 and WHO GMP
- **GMP and GLP**- WHO GMP and GLP compliance in Quality control and R&D respectively
- **Technology transfer** for new vaccine development, Grant writing for funding from DBT, ICAR in vaccines field in industrial sector
- **Bio-Molecular Studies**-Novel Human NAD Kinase isoform3 has been cloned in different lengths, identified, localized in Hela cells through confocal microscopy, Oxidative stress measured through FACS and also expressed & purified, playing a role in mitochondrial oxidative stress.
- **Instruments Installation** and check for IQ, OQ, PQ and maintain the documentation.

RESEARCH

- **Molecular Biology research**- *Cloning, protein expression and In vitro* phosphorylation assay was developed for PINK1 Kinase protein which is important for identification of novel substrates playing a major role in neurodegenerative diseases like Parkinson's disease.
 - **Analysis** of the epidemiological data and SNP screening for developing novel biomarkers for most alarming diseases like Myocardial infarction and Diabetes during my PhD etc.

BIOPROCESS KNOWLEDGE

- Expressed and purified recombinant proteins both insoluble, soluble proteins and developed standard protocols, methods for getting & checking the activity of the protein.

WRITING & DOCUMENTATION SKILLS (GDP-Good Documentation Protocols)

- **Project and Grant preparation-** Individual grant was awarded for own project UGC-Kothari-Postdoctoral program, Dept of Biochemistry at University of Hyderabad.
- **Documentation review and handling-**Instrumental in contributing to preparation, editing and successful grant approvals for my lab and supervisor during doctoral (PhD) and Postdoctoral research.
- **Research publications-** Published national and international publications as a individual and also collaborated with other team members in the lab for the credit of my research
- **GLP-Good Laboratory Practices-** Author responsible for maintenance of study initiation **SOPs** within the department and also cross functional teams and departments
- **Data Interpretation-** Accountable for all aspects of the study design, conduct of investigational including protocol development, study conduct, addressing unforeseen circumstances, data quality/review, data interpretation and reporting during my PhD and Postdoctoral programmes.

SCIENTIFIC TRAINER

- Organized various training programmes, workshops and conferences

PREVIOUS EMPLOYMENT HISTORY

- Worked as a **Senior Scientific Officer**, R&D at Brilliant Bio pharma Pvt Ltd, (**Vaccines division**) Hyderabad, India from March, 2015 to May,2017.
- Worked as a **Manager/Head** at Sri Sai Diagnostics, Ramanthapur, from Jan 2014 to Jan 2015, Hyderabad, TS, INDIA.
- Worked as a **CLINICAL BIO-CHEMIST** in CARE HOSPITALS, HYDERABAD, INDIA, from October 2003 to October 2004.

- **Industrial Project (Academic) @IIL, Hyderabad** -Purification of Immunoglobulin-G (Bovine and equine) by Chromatographic (using column Chromatography) and Non-Chromatographic (Precipitation methods) Technique,” including Final Semester (3 months) of M.Sc., from January to March (2001) at IIL-Indian Immunologicals Ltd (R&D Division), Rakshapuram, Gachibowli, and Hyderabad.

RESEARCH

- Worked as a **Post doctoral Scientist on “Identification of Novel Substrates for Mitochondrial PTEN Induced Putative Kinase (PINK1) Protein: Implications in Ageing and Parkinson’s disease”**, under **Dr. Naresh BV Sepuri**, Assoc. Prof, Dept of Biochemistry, School of Life Sciences, University of Hyderabad, TS, INDIA, from 2010 to 2014 January.
- Simultaneously during Postdoc worked on **Identification, localization and characterization of Novel Human NAD kinase** at University of Hyderabad from 2010 to 2014 January.
- **PhD- Doctoral Thesis on A Study on Genetic, Biochemical, inflammatory markers and risk of Myocardial Infarction and their First degree relatives**”, from Institute of Genetics and Hospital Genetic Diseases, Osmania University, Begum pet, Hyderabad, TS, India from 2005-2010.
- Worked as a **DBT project assistant** entitled ‘**Environmental And Biotechnology Awareness for the Identification and Prevention of Genetic Disorders in the Rural Population of Andhra Pradesh, (Mahaboobnagar District), India from November 2004 to November 2007**’ at Institute of Genetics and Hospital for Genetic diseases, Osmania University, Hyderabad-16, INDIA

BIO-TECHNICAL SKILLS

Molecular & Cell culture Techniques -

PCR, Semi q- PCR, Cloning, Recombinant Protein expression and Purification, SDS – PAGE, Mammalian Cell culture, Virus culture, Bacterial culture, RFFIT, Cell based assays, maintenance of Cell lines, transfection, Confocal microscopy, Si RNA Gene Silencing, FACS analysis, adaptation of serum free media cells.

BIO-PROCESS SKILLS

Purification- By Affinity Chromatography- Ion exchange; Adsorption, Size exclusion Chromatography under GMP conditions

Centrifugation - Handling and operation of High-Speed Cooling Centrifuges for separation of various bio-molecules, cell organelles (Mitochondria); Ultra-centrifuge for viral particles.

Sterile Operation and activities-Operation and Handling of Laminar Air Flow Unit (LAFU) ; Bio-safety cabinets and other sterile activities under GMP conditions.

ANALYTICAL SKILLS

Biochemical & Immunological Techniques-

FACS analysis, ELISA, HPLC, Routine biochemical tests, Endotoxin analysis; Biochemistry auto analyzers, Hormone analyzers, Hematology analyzers, Immuno precipitation, Western blot, RFFIT, Enzyme activity assays, adaptation of cells in serum free media, preparation of new adjuvants for vaccines, Vaccines development

Genetics

Collection of large data, SNP analysis, Patient interaction and case sheet analysis, Lymphocyte culture, Karyotyping, FISH technique.

Animal Studies- Small animal handling like mice, rat and dissection of various organs.

Computer SKILLS

Computer Knowledge and Statistics

Basic Bioinformatics Literature Collection, MS Office, working knowledge of SPSS statistical soft ware.

Process Raw material and consumables consumption and tracking by intra-net software

AWARDS AND HONORS

- Awarded **international travel grant** from **DBT, CSIR, INDIA** for presenting poster at conference, Cardiology update 2009. 18th International Postgraduate Course on Cardiovascular Disease. 15-20 Feb 2009, **Davos, Switzerland.**

- Secured **2nd prize** for poster presentation entitled 'Oxidative Stress and Total Anti Oxidant Status In Myocardial Infarction Patients and Their First Degree Relatives' on National Conference "Genome Analysis Perspective in the Post Genomic Era and Its Relevance to Society", 2007.
- Secured 1st rank in **Pre PhD** examinations from Institute of Genetics, Osmania University, 2006. (73%).

EDUCATIONAL QUALIFICATIONS

- **PhD- 2010**
Major: Molecular Genetics
University: Osmania University, Hyderabad, India (Department of cell & Molecular biology, Institute of Genetics& Hospital for Genetic Diseases)
- **M.Sc.,- 2001**
Major: Bio-Chemistry
University: Bharathi Dasan University, Trichi, India (Department of Biochemistry)
- **B.Sc., -1999**
Major- Microbiology
University: Sri Venkateswara University, Tirupathi, India

SCIENTIFIC TECHNICAL CERTIFICATION & CONTINUING EDUCATION COURSES

- **LABORATORY QUALITY MANAGEMENT SYSTEM AND INTERNAL AUDIT AS PER- ISO 15189:2012**, training program conducted by institute of applied quality management 20th to 23rd March, 2014, Hyderabad, India.
- **CERTIFICATE OF TRAINING AT UoH- DBT-CREBB.** Attended the Genomics training workshop for Quantitative PCR and Micro Array from Feb 7- 10, 2012, School of Life Sciences, University of Hyderabad,India.
- **CERTIFICATE COURSE IN TECHNIQUES IN ANIMAL HANDLING, CARE, BREEDING AND MANAGEMENT.** Trained in animal handling (Mice), blood drawing, breeding and management from **National Institute of Nutrition**, Hyderabad, India in Feb, 2010.

PROFESSIONAL AFFILIATIONS AND LEADERSHIP

- Member – Society of Biological Chemist (India) 2013
- Member – Twin cities Biochemistry Association from 2002-till the date
- Organizing Secretary – Advanced Genetic Diagnosis - DBT sponsored practical programme conducted by Institute of Genetics and Hospital for Genetic diseases, from 2006- 2009.

RESEARCH PUBLICATIONS

International

Marada A, Allu PK, Murari A, **PullaReddy B**, Tammineni P, Thiriveedi VR, Danduprolu J, Sepuri NB. Mge1, a nucleotide exchange factor of Hsp70, acts as an oxidative sensor to regulate mitochondrial Hsp70 function. *Mol Biol Cell* 2013; 24(6) 692-703. <http://www.ncbi.nlm.nih.gov/pubmed/23345595>

Pulla Reddy BhoomiReddy, BMV. Srikanth babu, K.Venkata Karunakar, J. Yasovanthi, P. Sampath kumar, A. Sharth, A.Jyothy. Angiotensin II type 1 receptor gene polymorphism in myocardial infarction patients *JRAAS* 2009; 10, 3, 174-178.<http://www.ncbi.nlm.nih.gov/pubmed/19713412>

Pulla Reddy B, Srikanth Babu BM, Venkata Karunakar K, Yasovanthi J, Munshi A, Sampath Kumar P, Sharath A, Jyothy A. Angiotensin-converting enzyme gene variant and its levels: risk factors for myocardial infarction in a South Indian population. *Singapore Med J.* 2010; 51(7):576-81. <http://www.ncbi.nlm.nih.gov/pubmed/20730398>

B.M.V. Srikanth Babu, **Reddy BP**, V. Hari Sai Priya, Anjana Munshi, H. Surekha Rani, Suman Latha Gaddam, V. Dayasagar Rao, and A. Jyothy. Cytokine Gene Polymorphisms in the Susceptibility to Acute Coronary Syndrome. *Genetic Testing and Molecular Biomarkers (GTMB)* 2012 16(5) 359-365. <http://www.ncbi.nlm.nih.gov/pubmed/22372709>

Yasovanthi J, Venkata Karunakar K, Sri Manjari K, **Pulla Reddy B**, Ajeya Kumar P, Sesha Charyulu M, Aruna P, Narasimulu G, Jyothy A. Association of vitamin D receptor gene polymorphisms with BMD and their effect on 1, 25-dihydroxy vitamin D3 levels in pre- and postmenopausal South Indian women from Andhra Pradesh. *Clin Chim Acta* 2011., 412(7-8):541-4.<http://www.ncbi.nlm.nih.gov/pubmed/21130756>

Parthasarathireddy T, **Pullareddy B**, Sampath Kumar P warkanath K Murthy. Association between Apolipoprotein E Gene Polymorphism and Myocardial Infarction. *Biochemical Genetics* 2012; 51(526) 398-405. <http://www.ncbi.nlm.nih.gov/pubmed/23371373>

J.Yasovanthi, **Bhoomi Reddy PR**, K.Venkata Karunakar, Munshi Anjana, A.Venkateswari, G.Narasimulu and A.Jyothy. Association of estrogen receptor alpha gene polymorphisms with BMD and their affect on estradiol levels in pre and post menopausal women in south Indian population Andhra Pradesh from. *Clinica Chimica Acta*2010;411,597-600. <http://www.ncbi.nlm.nih.gov/pubmed/20116372>.

Venkata Karunakar K, Madhavi G, **Pulla Reddy B**, Srikanth babu BMV, Yasovanthi J,Vijaya Lakshmi V, Jayanthi Ramesh, Jyothy A. Influence of tumor necrosis factor alpha, interferon gamma and interleukin 10 gene polymorphisms on diabetic peripheral neuropathy in South Indian patients with type 2 diabetes. "Cytokine, 2009; 47 (3), 173- 177. <http://www.ncbi.nlm.nih.gov/pubmed/19608431>

AnjanaMunshi, Shehnaz, SubhashKoul, **Reddy BP**, A. Jyothy. Angiotensin- converting enzyme insertion/ deletion polymorphism and the risk of ischemic stroke in Indian population. *J of Neurological Sciences* 2008; 272, 132– 135. <http://www.ncbi.nlm.nih.gov/pubmed/18586276>

Indian Journals Published

B.Pulla reddy, B.Prasanna , Jaya Simha. Effects Of Fetal Bovine Serum Concentration On The Growth And Survival Of BHK 21 Cells. *IJABPT*,2015.,7,(2).

B Pulla Reddy, V. Viswa mitra, T.P.S. Reddy, P. Sampath, A. Jyothy. MMP- 3 5A/6A Promoter Gene polymorphism and risk of Myocardial Infarction in South Indian Population. *IJABPT* 2010; 1(3). <http://ijabpt.com/pdf/68077-B%5B2%5D.Pulla%20Reddy-UOH.pdf>

Parthasarathi reddy T, **Pullareddy B**, Sampath Kumar P warkanath K Murthy. Lipoprotein Lipase (LPL) Gene Polymorphism and risk of Myocardial Infarction. *Indian Heart J.* 2013; 65(6) :653-7 . <http://www.ncbi.nlm.nih.gov/pubmed/24407533>

REFERENCE (S)

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